

Model			
Designation	SCE15MNX	208-230V/60Hz 1~	Sales code: 104H8589

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	15,28cm³ / 0,93cu.in
Oil quantity	541cm³ / 18,3fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	450g / 15,9oz		
Free gas volume comp.	1460cm³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	3,1Ω (at 25°C)		
Winding resistance aux	15,2Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SCE15MNX

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	208-230V/60Hz
Number of phases	1
Voltage range	187-253V
Approvals	UL, KC, CB
Starting torque	HST
Note	Protector, relay and cover are included and pre-assembled to compressor.

Applications with SCE15MNX

	Conf. 1
Refrigerant	R290
Application	MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with SCE15MNX

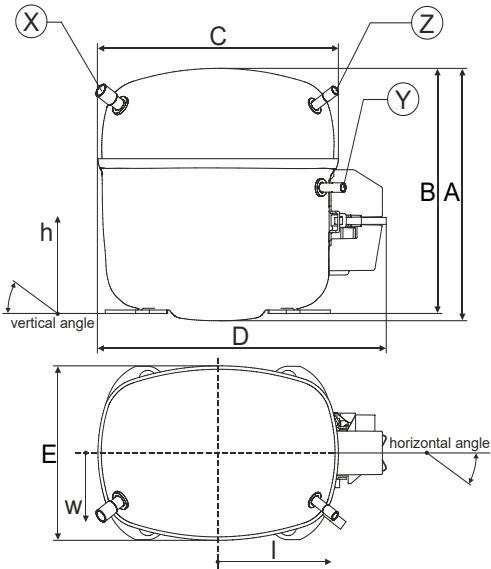
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	60μF
LRA (locked rotor amps / 4s/ U(N))	23,6A
RLA (rated load amps / 1s/ U(N))	4,5A
Cut in current (U(N))	23,6A

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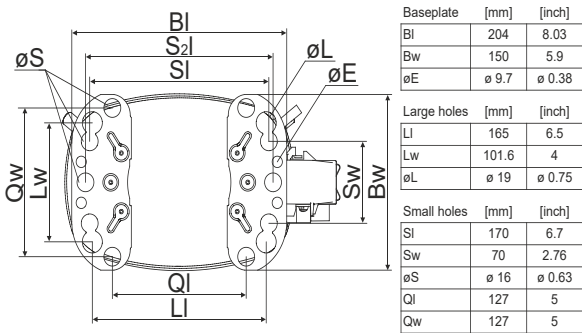
Compressor dimensions

Housing	A Height	219mm / 8,62in
	B Height	213mm / 8,39in
	C Length shell	218mm / 8,58in
	D Length w. cover	255mm / 10,04in
	E Width	151mm / 5,94in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 9,54-9,72	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,38-0,38	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	37°	37°	143°
Vertical angle	±2°	30°	0°	150°
Position l/h/w	[mm]	107/193/55	115/110/63	-107/193/55
	[in]	4,2/7,6/2,2	4,5/4,3/2,5	-4,2/7,6/2,2
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5



Compressor fixation

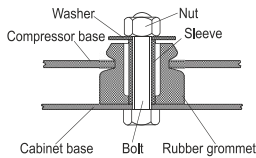


Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

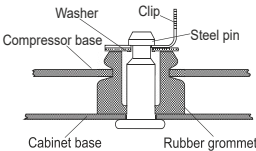
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

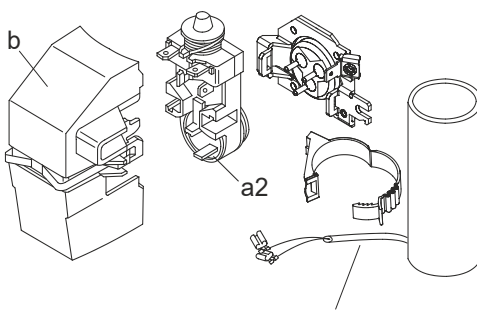
Bolt joint



Snap-on

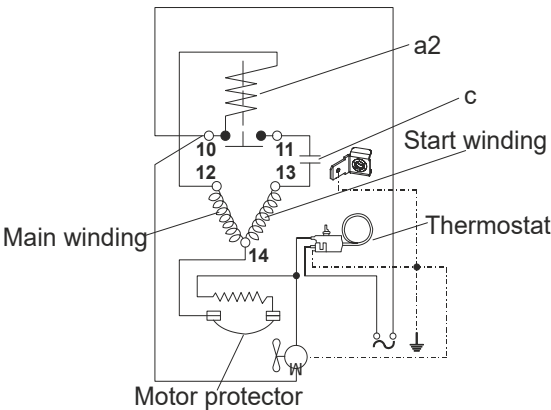


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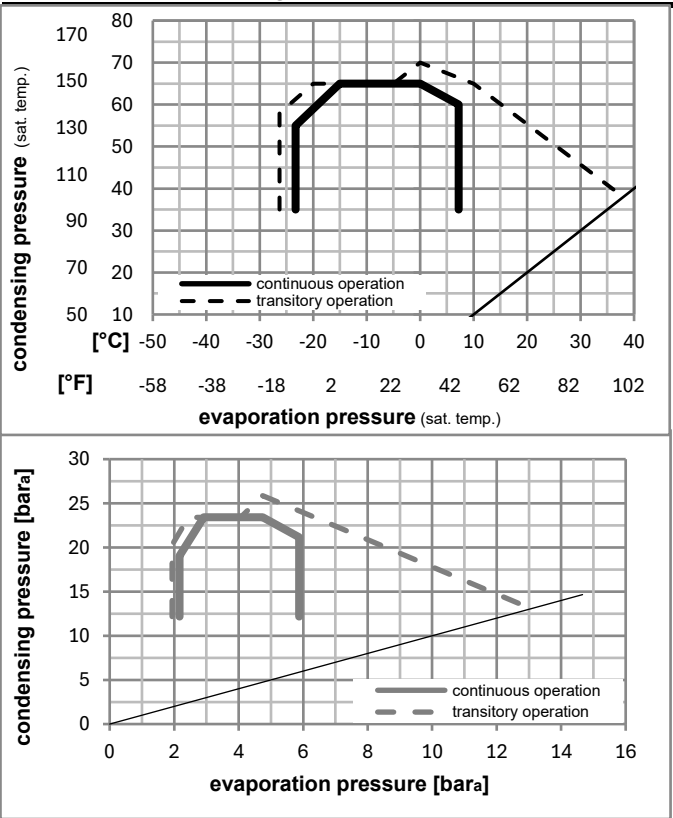
Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	CSIR	CSIR  8893		
Power supply (nominal)	208-230V/60Hz 1~			
Refrigerant	R290			
Application	MBP			
Voltage range	187-253V			
Starting torque	HST			
Approvals	UL			
	KC			
	CB			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components (relay (a2)+ cover (b): pre-assembled)

a2	assy. relay + ext. protector (T1116)	117U7401
c	start capacitor (60μF, 6.3mm, 82kOhm)	117U5076
b	plastic cover + clamp	117U1021

Noise emission

Operation pressures:	pe: -10°C / 14°F
	pc: 45°C / 113°F
Motor speed appr.:	3500rpm
Lw(A):	60dB(A)

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Optimization + standard conditions			R290, 230V/60Hz, CSIR, fan 3m/s, UL, KC, CB		

Evaporating pressure (saturation temperature)															Condensing pressure (saturation temperature)															Power consumption																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Performance tables						R290, 230V/60Hz, CSIR, fan 3m/s, UL, KC, CB					
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	714,1	2439	614,5	1,45	4,97	1,25	491,1	3,32	8,05
cond. pressure	-23	-10	782,7	2673	673,6	1,53	5,21	1,31	513,2	3,38	8,84
pc= 45/113	-15	5	1158,7	3957	997,2	1,87	6,38	1,61	620,4	3,72	13,18
return gas temp.	-9	15	1446,2	4939	1244,6	2,12	7,23	1,82	683,4	3,93	16,56
RGT= 32/90	-4	25	1769,6	6043	1522,9	2,41	8,23	2,07	734,0	4,10	20,41
liquid temp	0	32	2020,2	6899	1738,6	2,66	9,08	2,29	759,7	4,19	23,43
Tliq= 45/113	7,2	45	2546,0	8695	2191,1	3,26	11,15	2,81	780,1	4,28	29,91
[°C / °F]	-25	-13	567,4	1938	488,3	1,15	3,93	0,99	492,8	3,30	7,07
cond. pressure	-23	-10	629,8	2151	542,0	1,22	4,16	1,05	517,5	3,38	7,85
pc= 55/131	-15	5	972,8	3322	837,2	1,52	5,17	1,30	642,1	3,80	12,23
return gas temp	-9	15	1237,0	4225	1064,6	1,72	5,86	1,48	720,7	4,07	15,66
RGT= 32/90	-4	25	1536,1	5246	1322,0	1,94	6,64	1,67	790,4	4,31	19,60
liquid temp	0	32	1769,1	6042	1522,5	2,13	7,27	1,83	831,4	4,46	22,72
Tliq= 55/131	7,2	45	2260,8	7721	1945,7	2,56	8,73	2,20	884,6	4,65	29,46